

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 0756-1943

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Shunpei YAMAZAKI et al.

Filing Date: April 7, 1999

Group: 2871

JP135
09/288140
04/08/99

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
h	5,159,476	10/27/92	Hayashi			
	4,646,426	3/3/87	Sasaki			
	4,900,695	2/13/90	Takahashi et al.			
	5,251,071	10/5/93	Kusukawa et al.			
	5,200,846	4/6/93	Hiroki et al.			
	4,427,979	1/24/84	Clerc et al.			
	4,559,535	12/17/85	Watkins et al.			
	4,908,710	3/13/90	Wakai et al.			
	5,113,181	5/12/92	Inoue et al.			
	5,264,839	11/23/93	Kanno et al.			
	5,327,001	7/5/94	Wakai et al.	359	59	4/1993
	5,250,931	10/5/93	Misawa et al.			
	5,495,353	2/27/96	Yamazaki et al.	359	59	4/1994
	5,055,899	10/8/91	Wakai et al.	359	59	4/1990
	5,051,570	9/24/91	Tsujikawa et al.	359	59	1/1990
	4,938,565	7/3/90	Ichikawa	359	59	
	5,012,228	4/30/91	Masuda et al.	350	333	
	4,818,077	4/4/89	Ohwada et al.	350	333x	
	4,680,580	7/14/87	Kawahara	350	784	
	4,949,141	8/14/90	Busta	357	23.7	
	4,103,297	7/25/78	McGreivy et al.	350	334x	
	4,239,346	12/16/80	Lloyd			
	5,003,356	3/26/91	Wakai et al.	359	59	
	5,056,895	10/15/91	Kahn	350	87	5/1990

Examiner

Date Considered

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>m</i>	5,084,905	1/28/92	Sasaki et al.	359	59	10/1989
	5,056,895	10/15/91	Kahn et al.	359	87	5/1990
	4,455,737	6/26/84	Godejahn, Jr.			
	4,468,855	9/4/84	Sasaki			
	4,557,036	12/10/85	Kyuragi et al.			
	4,646,426	3/3/87	Sasaki			
	4,746,628	5/24/88	Takafuji et al.			
	4,868,137	9/6/88	Ovshinsky et al.			
	4,868,137	9/19/89	Kubota			
	4,905,066	2/27/90	Dohjo et al.			
	5,017,914	3/17/92	Iwase et al.			
	5,612,799	3/18/97	Yamazaki et al.			
	4,984,033	1/8/91	Ishizu et al.	359	59	
	5,182,620	7/21/92	Nicholas	359	59	
	5,144,392	9/1/92	Brotherton	359	59	
	5,327,001	7/1994	Wakkai et al.	354	59	4/1993
	5,182,620	1/26/93	Shimada et al.	359	59	4/1991
	5,157,386	10/20/92	Uchida et al.	340	784	3/28/90
	5,017,914	5/21/91	Uchida et al.	340	793	11/20/89
	4,841,294	6/20/89	Clerc	340	793	2/17/87
	4,036,553	7/19/77	Borel et al.	340	793	3/3/75
	4,597,637	7/1/86	Ohta			1/26/84

Examiner *T.J.*Date Considered *05/11/99*

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Group: 2871

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
TI	64-68728	3/14/89	Japan				
	01-165172	6/29/89	Japan			Abstract	
	02-085826	3/27/90	Japan			Abstract	
	01-156725	6/20/89	Japan			Abstract	
	01-076036	3/22/89	Japan			Abstract	
	62-014472	1/23/87	Japan			Abstract	
	02-277244	11/13/90	Japan			Abstract	
	03-034434	2/14/91	Japan			Abstract	
	53-144297	12/15/78	Japan	340	784	Abstract	
	64-68724	3/14/89	Japan	340	784	Abstract	
	2-51129	2/21/90	Japan	340	784	Abstract	
	0 321 073	6/21/89	EPO	340	784		
	322257 <i>See # 3 w/errata</i>	12/18/87	Japan				
	1-130131	5/23/89	Japan	340	784	Abstract	
	61-141174	6/28/86	Japan			Full	
	55-32026	3/6/80	Japan			Full	
	2-234134	9/17/90	Japan			Full	
	49-77537	7/26/74	Japan				
	62-126677	6/8/87	Japan			Abstract	
	63-100777	5/2/88	Japan			Abstract	
	64-30272	2/1/89	Japan			Abstract	
	2-188723	7/24/90	Japan			Abstract	
	2-210330	8/21/90	Japan			Abstract	
	63-200572	8/18/88	Japan			Abstract	
	63-136673	6/8/88	Japan			Abstract	

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TI

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05/12/00

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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
T1	58-32466	2/25/83	Japan			Abstract	
	56-81972	7/4/81	Japan			Abstract	
	58-124273	7/23/83	Japan			Abstract	
	58-158967	9/21/83	Japan			Abstract	
	58-115864	7/9/83	Japan			Abstract	
	59-214262	12/4/84	Japan			Abstract	
	62-124769	6/6/87	Japan			Abstract	
	63-082177	4/12/88	Japan			Abstract	
	0 298 255	1/11/89	EPO				
✓	63-96636	4/27/88	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

29		1990 IEEE INTERNATIONAL SOLID-STATE CIRCUITS CONFERENCE Digest of Technical Papers; 16 Feb. 1990, San Francisco, CA., pgs. 220-221, XP000201945, S.N. Lee et al., "A 5x9 Inch Polysilicon Gray-Scale Color Head Down Display Chip".
17		PROCEEDINGS OF THE SID, Vol. 31, No. 4, 1990, Los Angeles, CA., pgs. 343-347, XP000207744, S. Takahashi et al., "A 10-in.-Diagonal 16-Gray-Level (4096 Color) a-Si TFT-LCD".
		Wolf et al., Silicon Processing for the VLSI ERA, Lattice Press, Volume 1, 1989, pages 151-154
✓		Wolf et al., Silicon Processing for the VLSI ERA, Lattice Press, Volume 2, pages 66-72.

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Attorney Docket No. 0756-1943

Serial No. Not Yet Assigned

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Applicant: Shunpei YAMAZAKI et al.

Filing Date: April 7, 1999

Group: 2871

U.S. PATENT DOCUMENTS CITED IN COPENDING APPLICATION SERIAL NO. 09/104,980

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>m</i>	4,068,020	01/10/78	Reuschel	427	85	12/29/75
	4,365,013	12/21/82	Ishioka et al.	430	57	07/28/81
	4,378,417	03/29/83	Maruyama et al.	430	57	04/15/81
	4,559,535	12/17/85	Watkins et al.	340	793	07/12/82
	4,591,892	05/27/86	Yamazaki	357	30	08/22/83
	4,597,160	07/01/86	Ipri	29	571	08/09/85
	4,740,829	04/26/88	Nakagiri et al.	357	59	12/03/86
	4,860,069	08/22/89	Yamazaki	357	17	10/02/87
	4,862,237	08/29/89	Morozumi	357	30	10/04/88
	4,888,305	12/19/89	Yamazaki et al.	437	101	03/09/89
	4,891,330	01/02/90	Guha et al.	437	81	03/28/88
	4,897,360	01/30/90	Guckel et al.	437	7	12/09/87
	4,959,700	09/25/90	Yamazaki	357	23.7	02/03/88
	4,969,025	11/06/90	Yamamoto et al.	357	30	09/25/89
	4,969,031	11/06/90	Kobayashi et al.	357	63	02/03/83
	4,986,213	01/22/91	Yamazaki et al.	118	719	09/28/88
	5,077,223	12/31/91	Yamazaki	437	4	11/29/89
	5,132,754	07/21/92	Serikawa et al.	357	23.7	07/21/88
	5,250,818	10/05/93	Saraswat et al.	257	66	03/01/91
	5,744,818	04/28/98	Yamazaki et al.	257	57	04/25/95

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>m</i> 0 161 555	11/21/85	Europe	H01L	29/04	Full
<i>l</i> 2-103925	04/17/90	Japan	H01L	29/78	Abstract
<i>l</i> 58-27365	02/18/83	Japan	H01L	29/78	Full

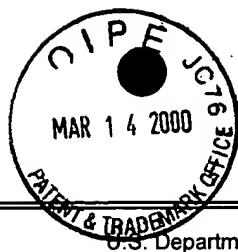
Examiner:

T.T.

Date Considered:

03/11/99

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Submitted with IDS of 03-14-00

Sheet 1 of 3

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 0756-1943

Serial No. 09/288,140

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicants: Shunpei YAMAZAKI et al.

Filing Date: April 8, 1999

Group Art Unit 2700

U.S. PATENT DOCUMENTS

Group 2700

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
11	3,838,209	09/24/74	Tsuchiya et al.			
	3,955,187	05/04/76	Bigelow			
	4,021,607	05/03/77	Amano			
	4,427,978	01/24/84	Williams			
	4,600,274	07/15/86	Morozumi			
	4,649,432	03/10/87	Watanabe et al.			
	4,650,543	03/17/87	Kishita et al.			
	4,653,862	03/31/87	Morozumi			
	4,660,030	04/21/87	Maezawa			
	4,716,403	12/29/87	Morozumi			
	4,742,346	05/03/88	Gillette et al.			
	4,743,096	05/10/88	Wakai et al.			
	4,752,774	06/21/88	Clerc et al.			
	4,770,502	09/13/88	Kitazima et al.			
	4,818,981	04/04/89	Oki et al.			
	4,873,516	10/10/89	Castleberry			
	4,897,639	01/30/90	Kanayama			
	4,930,874	06/05/90	Mitsumune et al.			
	4,960,719	10/02/90	Tanaka et al.			
	4,973,135	11/27/90	Okada et al.			
	5,016,610	05/21/91	Meguro et al.			
	5,091,722	02/25/92	Kitajima et al.			
	5,142,272	08/25/92	Kondo			

Examiner

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Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 0756-1975

Serial No. 09/315,987

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicants: Shunpei YAMAZAKI et al.

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Filing Date: May 21, 1999

Group Art. 1815 2000

U.S. PATENT DOCUMENTS**Group 2700**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
TA	5,182,620	01/26/93	Shimada et al.			
	5,196,839	03/23/93	Johary et al.			
	5,206,635	04/27/93	Inuzuka et al.			
	5,235,195	08/10/93	Tran et al.			
	5,287,205	02/15/94	Yamazaki et al.			
	5,329,390	07/12/94	Fujiwara et al.			
	5,408,246	04/18/95	Inaba et al.			
	5,414,443	05/09/95	Kanatani et al.			
	5,568,288	10/22/96	Yamazaki et al.			
	5,854,879	12/19/98	Inuzuka et al.			
	Re. 33,882	04/14/92	Morozumi			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
TA	0 349 415	03.01.90	EP				X
	1 396 486	04.06.75	GB				
	2 130 781	06.06.84	GB				
	2 187 859	16.09.87	GB				
	49-52598	05.22.74	JP			Abstract	
	52-76897	06.28.77	JP			Abstract	
	58-27365	02.18.83	JP			Full	
	59-61818	04.09.84	JP			Abstract	
	60-154996	10.16.85	JP				X
	61-136263	06.24.86	JP			Abstract	
	62-283664	12.09.87	JP				X
	64-68732	03.14.89	JP				X

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Sheet 3 of 3

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
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Attorney Docket No. 0756-1975

Serial No. 09/315,987

Group 2700

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicants: Shunpei YAMAZAKI et al.

Filing Date: May 21, 1999

Group Art Unit: 2811

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
m	1-107237	04.25.89	JP			Abstract	
	1-156725	06.20.89	JP			Full	
	1-161316	06.26.89	JP			Abstract	
	2-16596	01.19.90	JP			Abstract	
	2-199498	08.07.90	JP			Abstract	
	3-288824	12.19.91	JP			Abstract	
	4-283729	10.08.92	JP			Full	
	4-291240	10.15.92	JP			Full	

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m	IBM Technical Disclosure Bulletin, Vol. 33, No. 6B, Nov. 1990, New York, pgs. 384-385, XP 000108914, "Driving Method for TFT/LCD Grayscale"
m	Molecular Crystals and Liquid Crystals, Vol. 185 (1990) August, Chur, CH, pgs. 67-74, Montgomery et al., "Improving Multiplexability of Polymer-Dispersed Liquid Crystal Films by Dual Frequency Addressing".

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Form PTO-1449 U.S. Department of Commerce
(Rev. 8-83) Patent and Trademark Office

Atty.Docket No.: 0756-1943

Serial No. 09/288,140

INFORMATION DISCLOSURE STATEMENT

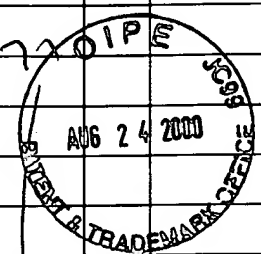
Applicant: SHUNPEI YAMAZAKI ET AL.

(Use several sheets if necessary)

Filing Date: April 8, 1999

Group: 2774

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if approp.)
	RE 36,314	09/28/99	YAMAZAKI ET AL.			
	5,308,998	05/03/94	YAMAZAKI ET AL.			
	5,414,442	05/09/95	YAMAZAKI ET AL.			
	5,453,858	09/26/95	YAMAZAKI			
	5,514,879	05/07/96	YAMAZAKI			
	5,521,107	05/28/96	YAMAZAKI ET AL.			
	5,614,732	03/25/97	YAMAZAKI			
	5,701,167	12/23/97	YAMAZAKI			
	5,784,073	07/21/98	YAMAZAKI ET AL.			
	5,849,601	12/15/98	YAMAZAKI			
	5,859,445	01/12/99	YAMAZAKI			
	5,899,547	05/04/99	YAMAZAKI ET AL.			
	5,905,555	05/18/99	YAMAZAKI ET AL.			
	5,913,112	06/15/99	YAMAZAKI ET AL.			
	5,946,059	08/31/99	YAMAZAKI ET AL.			
	5,956,105	09/21/99	YAMAZAKI ET AL.			
	5,962,870	10/05/99	YAMAZAKI ET AL.			
	6,011,277	01/04/00	YAMAZAKI			
	6,013,928	01/11/00	YAMAZAKI ET AL.			

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					Yes	No
JP 63-279228	11/16/1988	JAPAN			AB	
JP 53-27483	03/14/1978	JAPAN			AB	

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Japanese Journal of Applied Physics, Vol. 29, No. 3, *Characterization of μ c-Si:H Films Prepared by H₂ Sputtering*, Masayoshi

Tonouchi et al., March 1990, pp. L385 - L387

Japanese Journal of Applied Physics, Vol. 29, No. 7, *Growth Temperature Dependence of μ c-Si:H Films Sputtered with Hydrogen Gas*,

Yong SUN et al., July 1990, pp. L 1029 - L 1032

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Atty Docket 0756-

Serial No. 09/288,140

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Applicants: Shunpei YAMAZAKI et al.

Filing Date: April 08, 1999

Group Art Unit: 2774

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
M	4,740,829	04/26/1988	Nakagiri et al.			

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Group Art Unit: 2774

DEC 13 2000

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
M	5,358,810	10/25/1994	Yoshino			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
M	03-007911	01/16/1991	JP			Eng Abst
2	03-059543	03/14/1991	JP			Full Eng

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Technology Center 2600

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12/09/2000

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U.S. Patent
APR 27 2001
PATENT AND TRADEMARK OFFICE
Application Number
Filing Date
First Named Inventor
Group Art Unit
Examiner Name
Attorney Docket Number

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				<div style="text-align: center;"> Complete if Known </div>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Applicant's Number	09/288,140
				Filing Date	April 8, 1999
				First Named Inventor	Shunpei YAMAZAKI et al.
				Group Art Unit	2674
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	0756-1943

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Examiner Signature		Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NVA179399.1

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) SEP 05 2001 PATENT & TRADEMARK OFFICE		Application Number	09/288,140
		Filing Date	April 8, 1999
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2774
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	740756-001943	

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m		U.S. Application Serial No. 09/300,596, filed 4/28/99 (English Specification with Drawings and Claims)	
		U.S. Application Serial No. 09/316,198 filed 5/21/99 (English Specification with Drawings and Claims)	
		U.S. Application Serial No. 08/943,238, filed 10/1/1997 (English Specification with Drawings and Claims)	

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INFORMATION DISCLOSURE STATEMENT

Applicants: Shunpei YAMAZAKI et al.

Filing Date: April 08, 1999

Group Art Unit: 2774

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	4,814,041	03/21/1989	Auda			
	5,196,738	03/23/1993	Takahara et al.			
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3	Matino et al., "21.1: Horizontal Stripe Color Arrangement for Large-Size TFT-LCD", pp. 400-403, 1990, SID 90 Digest
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	Serikawa et al., "Low-Temperature Fabrication of High-Mobility Poly-Si TFT's for Large-Area LCD's", pp. 137-141, 1989, Proceedings of the SID, Vol. 32/2
	Lee et al., "A 5x9 Inch Polysilicon Gray-Scale Color Head Down Display Chip", pp. 220-221, 301, 1990, IEEE International Solid-State Circuits Conference

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Filing Date: April 08, 1999

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Morozumi, "Materials and Assembling Process of LCDs", pp. 171-181, 1990, LCD Devices and Instruments Group

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